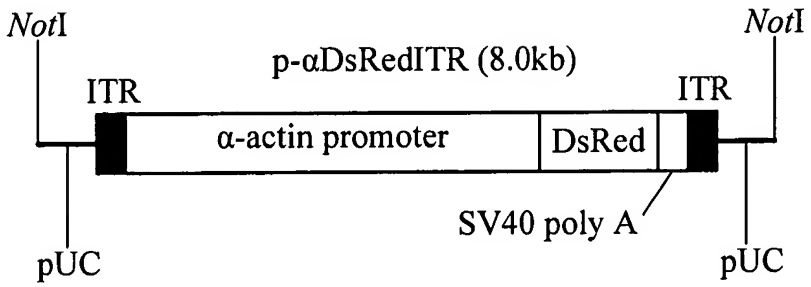
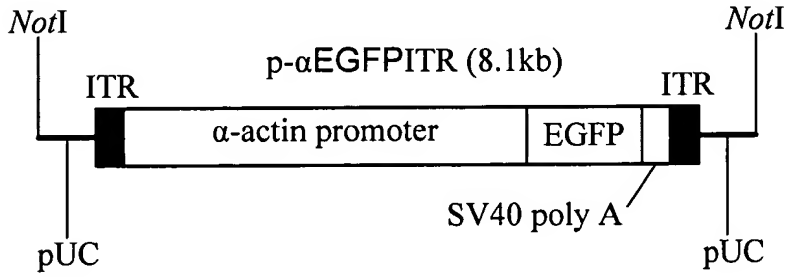
WHAT IS CLAIMED IS:

1. A gene fragment comprising (1) α-actin gene promoter of golden zebrafish; (2) fluorescence gene; (3) inverted terminal repeats (ITR) of adeno-associated virus; and (4) a basic part from pUC.

2. The fragment of Claim 1 which is



or



3. A method of producing golden zebrafish with systemic fluorescence comprising:

(a) constructing a plasmid including ITR, CMV promotor, fluorescent gene, S40 poly A and ITR from upstream to downstream;

(b) replacing the CMV promotor with α-actin gene promoter (systemic skeletal muscle actin gene expression) of golden zebrafish to produce a new plasmid construct;

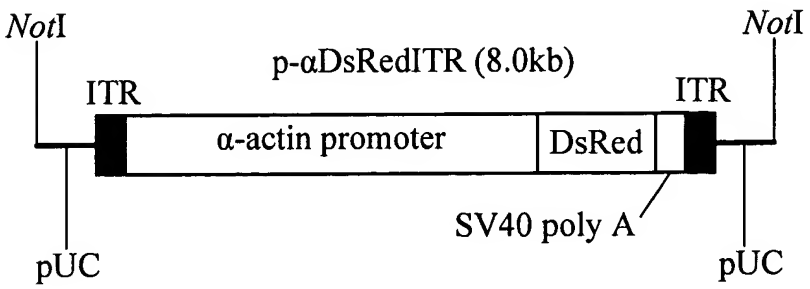
(c) linearizing the new plasmid construct;

(d) microinjecting the linearized plasmid construct into fertilized eggs of golden zebrafish;

(e) selecting the eggs with fluorescence; and

(f) cultivating the eggs to produce golden zebrafish with systemic fluorescence.

4. The method of Claim 3 wherein the linearized plasmid is



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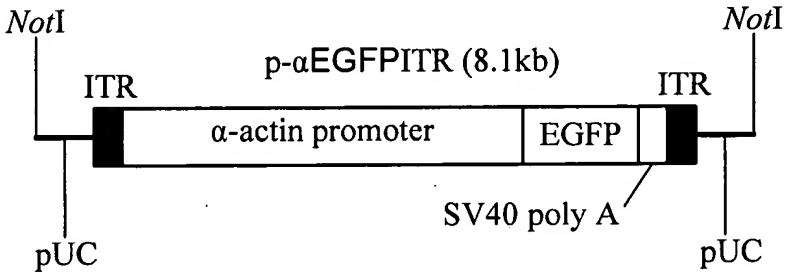

5. The method of Claim 3 wherein the fluorescent gene is red fluorescent gene from pDsRed2-1.

6. The method of Claim 3 wherein the fluorescent gene is green fluorescent gene from pEGFP-1.

7. A golden zebrafish with systemic fluorescence produced from the method of Claim 3.

8. The golden zebrafish of Claim 7 which has systemic red fluorescence.

9. The golden zebrafish of Claim 7 which has systemic green fluorescence.

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